

Series3800/S120R-1

POWERFUL SERVERS AT EXCEPTIONAL VALUE

Key Features

- » QUAD-CORE OR DUAL-CORE INTEL® 64-BIT XEON® WITH 667 / 1066 / 1333 MHz FSB
- » UP TO 32GB DDR2 667 & 533 SDRAM FULLY BUFFERED DIMM (FB-DIMM)
- » LEFT SLOT (FULL-HEIGHT / FULL-LENGTH): 1 UNIVERSAL I/O (UIO) AND 1 (x8) PCI-EXPRESS
- » RIGHT SLOT (LOW-PROFILE): 1 64-BIT 133MHz PCI-X OR 1 (x8) PCI-EXPRESS
- » INTEL (ESB2/GILGAL) 82563EB DUAL-PORT GIGABIT ETHERNET CONTROLLER
- » 4 x 3.5" HOT-SWAP DRIVE BAYS FOR CUSTOMIZABLE STORAGE
- » 560W HIGH-EFFICIENCY POWER SUPPLY

Processor / Cache

CPU	• Dual 771-pin LGA Sockets • Supports up to two Intel 64-bit Xeon processor of the same type below: Quad-Core Intel Xeon processor 5400/5300 sequence (Harpertown /Clovertown processor) up to 3.16 GHz • Dual-Core Intel Xeon processor 5200/5100/5000 sequence (Wolfdale /Woodcrest/Dempsey processor) up to 3.40 GHz
System Bus	• 1333 / 1066 / 667 MHz system bus

Operating System Software

Software	• Microsoft® Windows® 2003 Server Standard Edition • Microsoft Windows Server 2003 Enterprise Edition • Red Hat® Linux® ES 3 (Update 4) • Red Hat Linux ES 4 (Update 1 & 2) • SuSE® Linux® SLES 9.0 • SuSE Linux 9.1 & 9.2 • VMware® ESX 3 & 3.5
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System Memory

Memory Capacity	• Eight 240-pin DIMM sockets • Supports up to 32 GB 667 / 533MHz DDR2 ECC FB-DIMM memory • Dual branch memory bus
Memory Capacity <i>cont'd</i>	• Memory must be populated in pairs • Memory Mirroring supported
Memory Type	• 667 / 533MHz FB-DIMM (Fully Buffered DIMM) ECC DDR2 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	• 256MB, 512 MB, 1GB, 2GB, 4GB
Memory Voltage	• 1.8V only • 1.5V (AMB)

On-Board Devices

Clock Generator	• IDT CV152
SATA	• Intel ESB2 SATA 3.0Gbps Controller • RAID 0, 1, 5, 10 support (Windows Only) • RAID 0, 1, 10 support (Linux)
IPMI	• Support for Intelligent Platform Management Interface v.2.0 • 200-pin IPMI slot (SIMSO) • Optional: AOC-SIMSO(+) • For dedicated LAN, cable CBL-0177L must be used (cable sold separately)
Network Controllers	• Intel (ESB2/Gilgal) 82563EB Dual-port Gigabit Ethernet Controller
Graphics	• ATI ES1000 controller with 16 MB of video memory
Super I/O	• Winbond 83627HF chip

Input / Output

Serial ATA	• Six Serial ATA ports
IDE	• Single EIDE channel supports up to two UDMA IDE devices (IDE-M, IDE-S)
Floppy	• 1 Floppy controller; 1.44 MB, 2.88 MB
LAN	• 2x RJ45 LAN ports

USB	• 2x USB rear ports • 3x USB internal headers • Total 5 USB 2.0 Compliant / 1.1 Compliant
VGA	• 1x VGA Port
Keyboard / Mouse	• PS/2 keyboard and mouse ports • Keyboard and optical mouse optional
Serial Port / Header	• 1 Fast UART 16550 serial port • 1 Fast UART 16550 serial header

Chassis

Form Factor	• 1u Rackmount
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Expansion Slots (PCI-Express)

Left Universal Slot	• 1 Universal I/O (UIO) Slot AND • 1 (x8) PCI-e Slot
Right Universal Slot	• 1 64-bit 133MHz PCI-X Slot OR • 1 (x8) PCI-e Slot (RSC-R1UU-E8R riser card included)
UIO	• 1 Universal I/O (UIO) slot (Left Side)

System BIOS

BIOS Type	• 8MB Flash EEPROM with Phoenix® BIOS
BIOS Features	• Plug and Play (PnP) • SMBIOS 2.3 • DMI 2.1 • PCI 2.2 • ACPI 1.0 • USB Keyboard support

Management

Software	• Optional IPMI (Intelligent Platform Management Interface) 1.5/2.0 • SuperDoctor III • Watch Dog • NMI
Power Configurations	• ACPI Power Management • Main Switch Override Mechanism • Wake-On-Ring (WOR) header • Wake-On-LAN (WOL) header • Power-on mode for AC power recovery • Internal / External modem remote ring-on

PC Health Monitoring

CPU	• Monitors for CPU Cores, +3.3V, +5V, ±12V, +1.2V • 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	• Total of four 3-pin and four 4-pin fan headers supporting up to 8 fans • 8x fans with tachometer status monitoring • Status monitor for speed control • Status monitor for on/off control • Low noise fan speed control • Pulse Width Modulated (PWM) fan connectors

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Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal Control for 8x fan connectors • PSU I2C temperature sensing logic • Thermal Monitor 2 (TM2) support
LED	• CPU / System Overheat LED
Other Features	• Chassis intrusion detection • Chassis intrusion header • SDDC Support

Dimensions

Height	• 1.7" (43mm)
Width	• 17.2" (437mm)
Depth	• 25.6" (650mm)
Gross Weight	• 43lbs (19.5kg)
Color	• Black

Front Panel

Buttons	• Power On/Off button • System reset button
LEDs	• Power LED • Hard drive activity LED • 2x Network activity LEDs • System overheat LED / fan fail LED • Power fail LED
Ports	• 2x USB & DB9 COM port tray - Optional - in place of floppy drive

Drive Bays

Hot-swap	• 4x 3.5" Hot-swap drive trays
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Peripheral Drives

DVD-ROM	• Slim 8x DVD, 24x CD, DVD-ROM drive
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SATA / SAS Backplane

1U SATA / SAS Backplane w/ SES2 Enclosure Management
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System Cooling

Fans	• 4x Cooling Fans
Shroud	• 1x Air Shroud

Power Supply

560W AC power supply w/ PFC (20-pin)	
AC Voltage	• 100 - 240V, 50 - 60Hz, 8.5 - 4Amp

OPERATING ENVIRONMENT / COMPLIANCE

RoHS - RoHS Compliant 5/6, Server Exemption

Environmental Spec.

Operating Temperature: 10°to 35°C (50°to 95°F)
Non-operating Temperature: -40°to 70°C (-40°to 158°F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5 to 95% (non-condensing)

Compliance

USA - UL listed
Canada - CUL listed
Germany - TUV Certified
EN 60950/IEC 60950-Compliant
CB Report
CCC Certification

